

AGENDA
DOE Atmospheric Sciences Program (ASP) Meeting
4- 5 March 2003
Ramada Resort Conference Center
Orlando, FL

Tuesday, March 4th

- 8:15 Welcome - Peter Lunn (DOE-BER)
- 8:45 Some Highlights of DOE's Environmental Meteorology Program
(EMP) Research: Vertical Transfer and Mixing (VTMX) -
Chris Doran, PNNL
- 9:00 Initial Results from the Northeast Aerosol Oxidant Study
(NEAOS), 2002 -
Peter Daum, BNL
- 9:30 NAOPEX Summer 2002 - Nighttime Aerosol - Oxidant Plume
Experiment - Preliminary Results - Rahul Zaveri - PNNL
- 9:45 Atmospheric Chemistry of Energy-Related Organic Compounds
and Products -
Roger Atkinson and Janet Arey, University of California,
Riverside
- 10:30 Role of Sea Salt in Tropospheric Chemistry and Global Climate -
Barbara Finlayson-Pitts, University of California, Irvine

- 10:45 Atlanta Nucleation and Characterization Experiment (ANARChE)
August 2002 - Peter McMurray, University of Minnesota
- 11:00 Aerosol Formation from Atmospheric Organics -
John Seinfeld, CalTech
- 11:15 Heterogeneous chemistry modeling: Progress on integrating an
atmospheric chemistry model and aerosol model -
Joyce Penner, University of Michigan
- 11:30 Investigation of Organic Aerosol Formation from Aromatics
Hydrocarbons - Renyi Zhang, Texas A&M, College Station
- 11:45 Nocturnal Chemistry in Urban Areas: A one-dimensional view -
Jochen Stutz, UCLA
- 4:00 Water Uptake and Loss by Internal Mixtures of Ammonium
Sulfate with Dicarboxylic Acids - Margaret Tolbert, University
of Colorado, Boulder
- 4:15 Multi-dimensional characterization of aerosol particles -
Alla Zelenyuk Imre - BNL
- 4:30 Discussion - SBIR/STIR - J. Gaffney - ANL
- 4:45 Marvin L. Wesely (May 5, 1944 - January 20, 2003), In
Remembrance - Jeff Gaffney, ANL

Wednesday, March 5th

- 8:30 ARM - ACP AEROSOL IOP Chemical - Microphysical - Optical - Radiative Closure Experiments - Steve Schwartz and Dan Imre - BNL
- 9:15 Mexico City - 2003: Overview - Jeffrey Gaffney, ANL
- 10:30 NEAQS -Summer 2004 Study - Peter Daum, BNL
- 11:15 CTEF-I - Paul Doskey, ANL
- 1:30 Los Angeles/CARB, 2005 - Carl Berkowitz, PNNL
- 2:15 Texas Air Quality Study TexAQS 2006 - Larry Kleinman, BNL
- 3:30 MIRAGE - Megacity Impacts on the Regional and Global Environment - Sasha Madronich - NCAR
- 4:15 ASP Future Directions - Peter Lunn, DOE/BER

Poster Sessions:

Mass Accommodation Coefficients of Organic Gas Phase species and Gas Phase Hydrogen Halides on 1-Octanol as a Function of Relative Humidity and Temperature - P. Davidovits

Effect of Fast Chemical Reactions on Vertical Mass Flux Variations Above Vegetation - V. R. Kotamarthi

Evaluation of Ozone Production Efficiently in an Urban Plume Using a Lagrangian Box Model - R. Zaveri, C. Berkowitz, L. Kleinman, S. Springston, P.V. Doskey, and C.W. Spicer

Update on Fast GC/Luminol System for NO₂ and PAN Measurements - N. A. Marley and J. S. Gaffney

Quantifying the roles of transport and chemistry on local photochemical budgets: A modeling study of Phoenix 2001 - C. Atherton, D. Bergmann, P. Cameron-Smith, P. Connell, J. Dignon, A. Franz, C. Molenkamp, D. Rotman, J. Tannahill

Effects of hydrocarbon emissions and multi-day accumulation of ozone and ozone precursors during the 2000 TexAQs field campaign using PEGASUS - J. D. Fast and G. Jiang

Recent insights into the formation and chemical composition of atmospheric nanoparticles from the Aerosol Nucleation and Realtime Characterization Experiment - J.N. Smith, K.F. Moore, A. K. Ghimire, D. Voisin, F. L. Eisele and P. H. McMurry

Single Particle Analysis of the Chemistry of Atmospheric Aerosol - B. Krueger, V. Grassian, A. Laskin and J. Cowin

Ozone Reactions on Mineral Dust and Mineral Dust with Organic and Inorganic Coatings - A. Michel, C. Usher and V. Grassian

Heterogeneous Uptake Kinetics of VOCs on Oxide Surfaces Using a

Knudsen Cell Reactor: Adsorption of Acetic Acid, Formaldehyde and Methanol on α -Fe₂O₃, α -Al₂O₃ and SiO₂ - S. Carlos-Cuellar, P. Li, A. Christensen, B. Krueger, C. Burrichter, V. Grassian and G. Carmichael

Laboratory Study of Heterogeneous Reactions of Calcium Carbonate in an Environmental Aerosol Chamber - A. Preszler Prince, P. Kleiber, M. Young and V. Grassian

Aerosol Mass Spectrometry Measurements about the G1 during the NEAQS - 2002 - J. Jayne

Measuring Trace Gas Fluxes from an Aircraft Platform - M. S. Pekour, D. Cook, M. T. Ritsche, V. Rao Kotamarthi, P.V. Doskey, B. Tom Jobson, and J. Hubbe

The impact of aerosols on tropospheric chemistry: findings from recent field experiments - Y. Tang, G. Carmichael, I. Uno, J. Woo, and V. Grassian, R. Shetter, T. Clarke, M. Avery

Atmospheric H₂ and HD: From Tracking Urban Pollution to Assessing Environmental Impacts of a Hydrogen Economy - T. Rahn and M. K. Dubey, (EES,LANL), J. Eiler, (Caltech), L. Horowitz (GFDL-NOAA)

Spectral Dependence of Light Absorption by Aerosol Samples - T. Kirchstetter and T. Novakov - LBNL

NO₂ and PAN Measurements - N. Marley, and J. Gaffney, ANL

Turbulent Transport of NO_y and O₃ in the Atmospheric Boundary Layer - C. Berkowitz, C. Doran and S. Springston, PNNL, BNL

Development of Laser-Based Diagnostics to Measure Aerosol Optical Properties in a Electrodynamic Balance - C.C. Schmidt (EES-2), M.K. Dubey (EES-6) and J.R. Stephens (C-ADI), LANL